JOB HAZARD ANALYSIS				
JOB: Biogenic Silic	Date Created: 6/21/00 Date Last Modified: 1/14/02			
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Recommended Protective Clothing and Equipment:		Lab coat, gloves, safety glasses, dust mask, oven mitts, proper footwear		
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Sequence of Basic Job Steps		Potential Accidents/Hazards	Recommended Safe Job Procedures	
Dry the wet sediment aliquot in an oven at 60°C for 24 hours		See Oven JHA	See Oven JHA	
Quantitatively transfer 50 mg dried material to centrifuge tubes and record sample # and mass		See aliquot making JHA	See aliquot making JHA	
Pipette 5 ml of Hydrogen Peroxide solution (10% H ₂ O ₂) into centrifuge tube		Inhalation/skin contact with H ₂ O ₂	Wear proper PPE (gloves, lab coat, glasses, shoes)	
Pipette 5 ml of Hydrochloric Acid solution (1 N HCl) into centrifuge tube		Inhalation/skin contact with HCl	Wear proper PPE (gloves, lab coat, glasses, shoes)	
Pipette Milli-Q water to samples to stop the reaction		Splashes, spills	Wear proper PPE (gloves, lab coat, glasses, shoes)	
Mixing sodium carbonate solution		Inhalation/skin contact with Na ₂ CO ₃	Wear dust mask, gloves, and lab coat	
Shaking samples in hot water bath at 95°C for 5 hours		Skin contact with hot water or equipment	Wear proper protective equipment	
Pipette .9 ml of Nitric Acid into sample cups		Inhalation/skin contact with HNO ₃	Wear proper PPE (gloves, lab coat, glasses, shoes)	